

Claims

1. A device for changing a dressing (01) on a cylinder (02) of a printing press with the aid of pressing elements (31, 32), spaced apart from each other in the circumferential direction of the cylinder (02), wherein first pressing elements (31) are arranged leading and second pressing elements (32) trailing in the production direction (P) of the cylinder 02, wherein several first pressing elements (31) and several second pressing elements (32) are provided in the axial direction of the cylinder (02), wherein several dressings (01) rest on the cylinder (02) side-by-side in the axial direction of the latter, characterized in that a partial number of the first pressing elements (31) and a partial number of the second pressing elements (32) can be placed against the cylinder (02) or moved away from it independently of each other.

2. The device in accordance with claim 1, characterized in that individual ones or groups of first pressing elements (32) and/or second pressing elements (31) are assigned to individual dressings (01).

3. The device in accordance with claim 1, characterized in that in one operating position all first pressing elements (31) are placed into contact, and only a partial number of second pressing elements (32) are placed into contact with the cylinder.

4. The device in accordance with claim 1, characterized in that pneumatically operable actuating

elements (33, 34) are provided, wherein the actuating means (33, 34) place the pressing elements (31, 32) against the cylinder (02), or move them away from it.

5. A method for bracing a dressing (01) on a cylinder (02) of a printing press with the aid of pressing elements (31, 32), which are arranged, spaced apart in the circumferential direction of the cylinder (02), wherein at least a first pressing element (31) is arranged to lead and at least a second pressing element (32) to trail in the production direction (P) of the cylinder (02), wherein the dressing (01) has suspension legs (03a, 03b) beveled off its ends, wherein the cylinder (02) has at least one opening (07) in its surface area (06) leading to a channel (08) arranged in the cylinder 02, wherein the suspension leg (03a) at the end of the dressing (01), which is leading in the production direction (P), is inserted into the opening (07), characterized in that in the course of a rotary movement of the cylinder (02) in its production direction (P), the suspension leg (03b) at the end of the dressing (01) which is trailing in the production direction (P) is pushed into the opening (07) by the trailing second pressing element (32).

6. The method in accordance with claim 5, characterized in that after inserting the suspension leg (03a) at the end of the dressing (01) leading in the production direction (P) of the cylinder (02), the pressing elements (31, 32) are placed against the cylinder (02).

7. The method in accordance with claim 5, characterized in that the pressing elements (31, 32) are moved away from the cylinder (02) after the suspension leg

(03b) at the end of the dressing (01) trailing in the production direction (P) of the cylinder (02) is maintained in the opening (07).

8. The method in accordance with claim 5, characterized in that, following the introduction of the suspension leg (03a) at the end of the dressing (01) leading in the production direction (P) of the cylinder (02) into the opening (07), a holding means (12), which is arranged in the channel (08), holds the suspension leg (03b) at the end of the dressing (01) trailing in the production direction (P) of the cylinder (02) and has a holding position and a release position, changes from its release position into its holding position.

9. The method in accordance with claim 8, characterized in that, following the insertion of the suspension leg (03a) at the end of the dressing (01) leading in the production direction (P) of the cylinder (02) into the opening (07), the holding means (12) changes from its release position into its holding position.

10. A method for releasing a dressing (01) from a cylinder (02) of a printing press with the aid of pressing elements (31, 32), which are spaced apart in the circumferential direction of the cylinder (02), wherein several dressings (01) rest on the cylinder (02) side-by-side in the axial direction of the latter, wherein first pressing elements (31) are arranged leading and second pressing elements (32) trailing in the production direction (P) of the cylinder (02), wherein each dressing (01) has beveled suspension legs (03a, 03b) at its ends, wherein the cylinder

(02) has on its surface area (06) at least one opening (07) leading to a channel (08) arranged in the cylinder (02), wherein the suspension leg (03b) at the end trailing in the production direction (P) of side-by-side arranged dressings (01) is inserted into the opening (07), characterized in that at least one leading first, as well as at least trailing second pressing element (31, 32) is placed against a dressing (01) to be removed, which rests on the cylinder (02).

11. The method in accordance with claim 10, characterized in that the second pressing element (32) placed against the dressing (01) to be removed is subsequently moved away from the cylinder (02) as soon as this second pressing element (32) is located on the opening (07) or close to the opening (07) because of a rotating movement of the cylinder (07).

12. The method in accordance with claim 10, characterized in that, after moving the second pressing element (32) away from the cylinder (02), a holding means (12), which has a holding position and a release position, is arranged in the channel (08) and holds the suspension leg (03b) at the trailing end in the production direction (P) of the cylinder (02) of the dressing (01), changes from its holding position into its release position.

13. The method in accordance with claim 12, characterized in that the suspension leg (03b) at the trailing end of the dressing (01) to be removed is automatically released from the opening (07).

14. The method in accordance with claim 13, characterized in that the holding means (12) changes from its release position into its holding position after the suspension leg (03b) at the trailing end of the dressing (01) to be removed has been released from the opening.

15. The method in accordance with claim 13 or 14, characterized in that the first pressing element (31) placed against the dressing (01) to be removed is moved away from the cylinder (02).

16. The method in accordance with claim 10, characterized in that the cylinder (02) rotates counter to its production direction (P) until the suspension leg (03a) at the leading end of the dressing (01) to be removed can be unhinged from the opening (07).

17. The method in accordance with claim 10, characterized in that the pressing elements (31, 32) are placed against all dressings (01) resting side-by-side in the axial direction on the cylinder (02).

18. The method in accordance with claim 17, characterized in that a holding means (12), which holds the suspension leg (03b) at the trailing end in the production direction (P) of the cylinder (02) of dressings (01) located side-by-side and has a holding position and a release position, is arranged in the channel (08) and changes from its holding position into its release position as soon as the second pressing element (32) is located over the opening (07) or close to the opening (07) in which the trailing end of the

dressing (01) to be removed is held as the result of a rotating movement of the cylinder (02).

19. The method in accordance with claim 17, characterized in that the second pressing element (32) at the trailing end of the dressing (01) to be removed is moved away from the cylinder (02), because of which the suspension leg (03b) at this end of the dressing (01) is automatically released from the opening (07).

20. The method in accordance with claim 19, characterized in that the cylinder (02) rotates counter to its production direction (P) until the suspension leg (03a) at the leading end of the dressing (01) to be removed can be unhinged from the channel (08).

21. The method in accordance with claim 19, characterized in that, following the release of the suspension leg (03b) at the trailing end of the dressing (01) to be removed, the holding means (12) changes from its release position into its holding position, and all pressing elements (31, 32) are moved away from the cylinder (02).

22. A method for releasing a dressing (01) from a cylinder (02) of a printing press with the aid of pressing elements (31, 32), which are spaced apart in the circumferential direction of the cylinder (02), wherein several dressings (01) rest on the cylinder (02) side-by-side in the axial direction of the latter, wherein first pressing elements (31) are arranged leading and second pressing elements (32) trailing in the production direction (P) of the cylinder (02), wherein each dressing (01) has beveled

suspension legs (03a, 03b) at its ends, wherein the cylinder (02) has on its surface area (06) at least one opening (07) leading to a channel (08) arranged in the cylinder (02), wherein the suspension leg (03b) at the end trailing in the production direction (P) of side-by-side arranged dressings (01) is inserted into the opening (07), characterized in that all first pressing elements (31) are placed against the cylinder (02) as soon as the second pressing element (32) is located over the opening (07) or close to the opening (07) in which the trailing end of the dressing (01) to be removed is held as the result of a rotating movement of the cylinder (02).

23. The method in accordance with claim 22, characterized in that thereafter a holding means (12) arranged in the channel (08), which holds the suspension leg (03b) at the trailing end in the production direction (P) of the cylinder (02) of the side-by-side arranged dressings (01) and has a holding position and a release position, changes from its holding position into its release position.

24. The method in accordance with claim 23, characterized in that of the first engaged pressing elements (31), except those on the trailing end of the dressing (01) to be removed, all other second pressing elements (32) are placed against the cylinder (02).

25. The method in accordance with claim 24, characterized in that the holding means (12) changes from its release position into its holding position.

26. The method in accordance with claim 22, characterized in that all pressing elements (31, 32) are moved away from the cylinder (02) after the holding means (12) has changed from its release position into its holding position.

27. The method in accordance with claim 26, characterized in that the cylinder (02) rotates counter to its production direction (P) until the suspension leg (03a) at the leading end of the dressing (01) to be removed can be unhinged from the opening (07).

28. The method in accordance with claim 22, characterized in that the suspension leg (03b) at the trailing end of the dressings (01) is automatically released from the opening (07) after the holding means (12) has changed from its holding position into its release position, wherein the dressings (01) remain fixed in place on the cylinder (02) by the pressing elements (31) placed against the cylinder (02).

29. The method in accordance with claim 28, characterized in that with the exception of the dressing (01) to be removed, the suspension legs (03b) at the trailing ends of all dressings (01) are inserted into the opening (07) again by placing the second pressing elements (32) against the cylinder (02).

30. The method in accordance with claim 5, 10 or 22, characterized in that at least one dressing (01) of six dressings (01) arranged side-by-side in the axial direction

of the cylinder (02) is braced on or released from a cylinder.

31. A device for pressing a dressing (01) against a cylinder (02) of a printing press with the aid of first and second pressing elements (31, 32), which are spaced apart from each other in the circumferential direction of the cylinder (02),

- wherein the pressing element (31, 32) can be placed against or away from the cylinder (02),

- wherein a first support (22) with a first end (23) and a second end (24), and a second support (26) with a first end (27) and a second end (28) are provided,

- wherein the first end (23) of the first support (22) is connected with a holder (21), which is spaced apart from the cylinder (02), and at least one first pressing element (31) is arranged at the second end (24) of the first support (22),

- wherein at least a second pressing element (32) is arranged at the second end (28) of the second support (26),

- wherein a first actuating means (33), which acts on the first support (22), and a second actuating means (34), which acts on the second support (26), are provided,

characterized in that

- second actuating means (34) acting on the second support (26) are arranged between the supports (22, 26).

32. The device in accordance with claim 31, characterized in that the first end (27) of the second support (26) is connected with the first support (22).

33. The device in accordance with claim 32, characterized in that the first end (27) of the second support (26) is connected with the second end (24) of the first support (22).

34. The device in accordance with claim 31, characterized in that there is a distance between the first end (23) of the first support (22) and the second end (28) of the second support (26).

35. The device in accordance with claim 31, characterized in that the first end (23) of the first support (22) is fixedly connected with the holder (21), and the first end (27) of the second support (26) is fixedly connected with the second end (24) of the first support (22), wherein each of the supports (22, 26) is embodied as an elastically bendable body.

36. A device for pressing a dressing (01) against a cylinder (02) of a printing press with the aid of first and second pressing elements (31, 32), which are spaced apart from each other in the circumferential direction of the cylinder (02),

- wherein the pressing element (31, 32) can be placed against or away from the cylinder (02),

- wherein a first support (22) with a first end (23) and a second end (24), and a second support (26) with a first end (27) and a second end (28) are provided,

- wherein the first end (23) of the first support (22) is connected with a holder (21), which is spaced apart from the cylinder (02), and at least one first pressing element

(31) is arranged at the second end (24) of the first support (22),

- wherein at least a second pressing element (32) is arranged at the second end (28) of the second support (26),

- wherein each of the supports (22, 26) is embodied as an elastically bendable body,

- wherein a first actuating means (33), which acts on the first support (22), and a second actuating element (34), which acts on the second support (26), are provided,

characterized in that

- the first end (27) of the second support (26) is fixedly connected with the first support (22).

37. The device in accordance with claim 36, characterized in that the first end (27) of the second support (26) is fixedly connected with the second end (24) of the first support (22).

38. The device in accordance with claim 36 or 37, characterized in that each actuating means (33, 34) acts on the support (22, 26) which is assigned to it and, by means of an elastic bending of the support (22, 26), places the pressing element (31, 32) of the latter against the cylinder (02) or moves it away from the cylinder (02).

39. The device in accordance with claim 36, characterized in that the second actuating means (34), which acts on the second support (26), is arranged between the supports (22, 26).

40. The device in accordance with claim 31 or 36, characterized in that the first and the second actuating means (33, 34) can be actuated independently of each other.

41. The device in accordance with claim 31 or 36, characterized in that the supports (22, 26) are embodied in the shape of a blade.

42. The device in accordance with claim 31 or 36, characterized in that each of the supports (22, 26) is a resilient sheet metal piece (22, 26).

43. The device in accordance with claim 31 or 36, characterized in that the first support (22) and the second support (26) are arranged layered on top of each other.

44. The device in accordance with claim 31 or 36, characterized in that the first end (27) of the second support (26) terminates flush with the second end (24) of the first support (22).

45. The device in accordance with claim 31 or 36, characterized in that the second support (26) is longer than the first support (22).

46. The device in accordance with claim 45, characterized in that the excess projection of the second support (26) in comparison with the first support (22) is so great that, in the non-actuated state of the second actuating means (34), the second pressing element (32) arranged on the second end (28) of the second support (26) can be positioned

laterally beside the holder (21) without touching the holder (21).

47. The device in accordance with claim 31 or 36, characterized in that the actuating means (33) acting on the first support (22) is supported on a stop (29), which is fixedly connected with the holder (21) or formed on it there.

48. The device in accordance with claim 31 or 36, characterized in that the actuating means (34) acting on the second support (26) is supported on the first end (23) of the first support (22), which is connected with the holder (21).

49. The device in accordance with claim 31 or 36, characterized in that each of the actuating means (33, 34) is embodied as a reversibly deformable hollow body, which can be charged with a pressure medium.

50. The device in accordance with claim 31 or 36, characterized in that a plurality of first supports (22), each with at least one pressing element (31), is arranged side-by-side on the holder (21), wherein these first pressing elements (31) can be placed against or moved away from the cylinder (02) independently of each other either individually or in groups by first actuating means (33) assigned to their supports (22).

51. The device in accordance with claim 31 or 36, characterized in that a plurality of second supports (26), each with at least one second pressing element (32), is arranged side-by-side on the first support (22), wherein these second pressing elements (32) can be placed against or

moved away from the cylinder (02) independently of each other either individually or in groups by second actuating means (34) assigned to their supports (26).

52. The device in accordance with claim 31 or 36, characterized in that the cylinder (02) has a plurality of dressings (01) side-by-side in the axial direction, wherein a second support (26) with at least one second pressing element (32) is assigned to each dressing (01).

53. The device in accordance with claim 1, 31 or 36, or the method in accordance with claim 5, 10 or 22, characterized in that the pressing elements (31, 32) are embodied as rolling elements (31, 32).

54. The device or the method in accordance with claim 53, characterized in that the rolling elements (31, 32) are embodied in the form of a roll or a roller.

55. The device or the method in accordance with claim 54, characterized in that a roller (31) extending along the cylinder (02) and a plurality of second supports (26) with at least one roll (32) are arranged on the first support (22).

56. The device in accordance with claim 1, 31 or 36, characterized in that six dressings (01) rest side-by-side on the cylinder (02) in its axial direction.

57. The device in accordance with claim 1, 31 or 36, characterized in that two dressings (01) rest on the cylinder (02) one behind the other in circumferential direction of the latter.